

**ABSTRACT OF THE DISCLOSURE**

[0051] A catalyst for producing hydrocarbon from a syngas is provided. In particular, the catalyst can be composed of catalyst support which a metallic compound is loaded on and that the impurity content of the catalyst is in the range from 0.01 mass% to 0.15 mass%. In addition, a method for producing the catalyst, and a method for producing the hydrocarbon using the catalyst are provided.